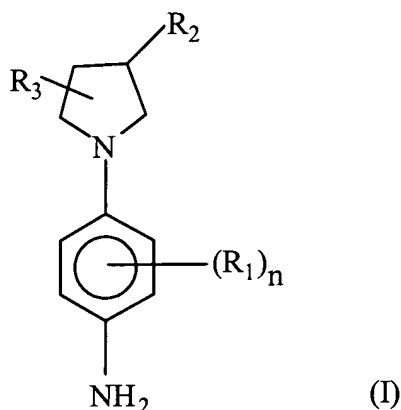


I. AMENDMENT

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A dyeing composition for dyeing keratinous fibres comprising, in an appropriate dyeing medium, at least one cationic tertiary paraphenylenediamine containing a pyrrolidine ring, and from about 0.1 to about 10% by weight of at least one polymer containing a fatty chain chosen from cationic polyurethanes containing a fatty chain, cationic celluloses containing a fatty chain, and cationic derivatives of polyvinylpyrrolidone containing a fatty chain, ~~anionic polymers containing a fatty chain containing at least one unit of the (C₁₀-C₃₀)alkyl ester of (meth)acrylic acid type or at least one allyl ether unit containing a fatty chain,~~ wherein said cationic tertiary paraphenylenediamine containing a pyrrolidine ring corresponds to formula I:



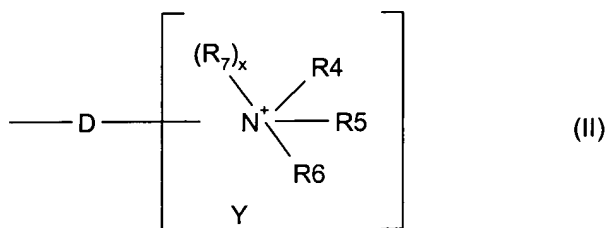
in which

n varies from 0 to 4, it being understood that when n is greater than or equal to 2, then the radicals R₁ may be identical or different,

~~R₁ represents a halogen atom; a saturated or unsaturated, aliphatic or alicyclic, C₁-C₆ hydrocarbon chain, it being possible for the chain to contain one or more oxygen, nitrogen, silicon or sulphur atoms or an SO₂ group, and it being possible for the chain to be substituted with one or more hydroxyl or amino radicals; an onium radical Z, the radical R₁ not containing a peroxide bond, or diazo, nitro or nitroso~~

radicals, is chosen from chlorine, bromine, C₁-C₄ alkyl, C₁-C₄ hydroxyalkyl, C₁-C₄ aminoalkyl, C₁-C₄ alkoxy or C₁-C₄ hydroxyalkoxy radicals,

R₂ represents an onium radical Z or a radical $\text{X}-\text{C}=\text{NR}_8-\text{NR}_9\text{R}_{10}$ in which X represents an oxygen atom or a radical NR_{11} and R₈, R₉, R₁₀ and R₁₁ represent a hydrogen atom, a C₁-C₄ alkyl radical or a C₁-C₄ hydroxyalkyl radical, the onium radical Z corresponding to formula (II)



in which

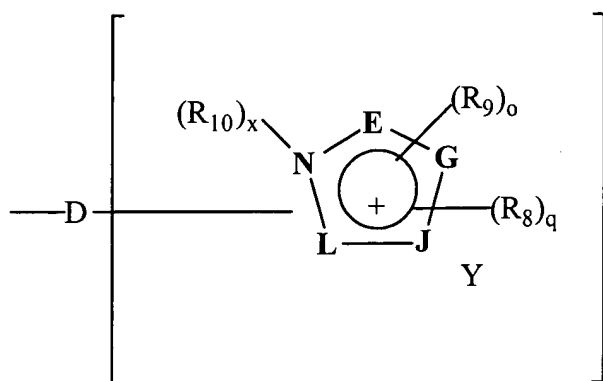
D is a single bond of a linear or branched C₁-C₁₄ alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C₁-C₆ alkoxy or amino radicals and which may carry one or more ketone functional groups;

R₄, R₅ and R₆, taken separately, represent a C₁-C₁₅ alkyl radical;

x is 0 and the linking arm is attached to the nitrogen atom carrying the radicals R₄ to R₆;

Y is a counter-ion; or

R₂ represents the onium radical Z corresponding to formula III



(III)

in which

D is a single bond or a linear or branched C₁-C₁₄ alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C₁-C₆ alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J and L form an imidazole ring;

q is an integer between 0 and 4 inclusive;

o is an integer between 0 and 3 inclusive;

q+o is an integer between 0 and 4;

the radicals R₈, which are identical or different, represent a halogen atom, a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a carboxyl radical, a C₁-C₆ alkylcarbonyl radical, a thio radical, a C₁-C₆ thioalkyl radical, a (C₁-C₆)alkylthio radical, an amino radical, an amino radical which is mono- or di-substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ monohydroxyalkyl radical or a C₂-C₆ polyhydroxyalkyl radical; it being understood that the radicals R₈ are carried by a carbon atom;

the radicals R₉, which are identical or different, represent a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a

tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical, a C₁-C₆ carbamylalkyl radical, a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical, a benzyl radical; it being understood that the radicals R₉ are carried by a nitrogen atom;

R₁₀ represents a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ aminoalkyl radical, a C₁-C₆ aminoalkyl radical whose amine is substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carboxyalkyl radical; a C₁-C₆ carbamylalkyl radical; a C₁-C₆ trifluoroalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ sulphonamidoalkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylsulphinyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylsulphonyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylsulphonamido(C₁-C₆)alkyl radical;

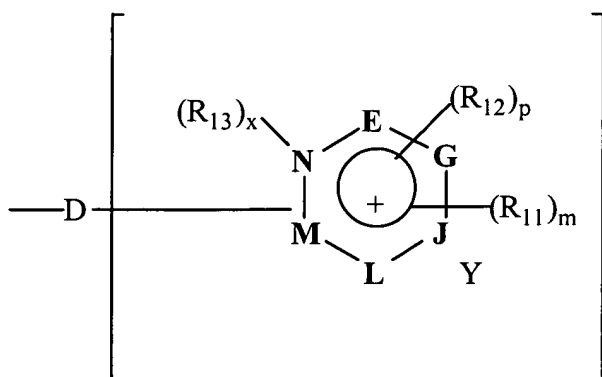
x is 0 or 1

when x = 0, the linking arm D is attached to the nitrogen atom,

when x = 1, the linking arm D is attached to one of the vertices E, G, J or L;

Y is a counter-ion; or

R₂ represents an onium radical Z corresponding to formula IV



(IV)

in which:

D is a single bond or a linear or branched C₁-C₁₄ alkylene chain which may contain one or more heteroatoms chosen from an oxygen, sulphur or nitrogen atom, and which may be substituted with one or more hydroxyl, C₁-C₆ alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L and M form, with the nitrogen of the ring, a ring chosen from pyridine and pyrimidine rings;

p is an integer between 0 and 3 inclusive;

m is an integer between 0 and 5 inclusive;

p+m is an integer between 0 and 5;

the radicals R₁₁, which are identical or different, represent a halogen atom, a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a carboxyl radical, a C₁-C₆ alkylcarbonyl radical, a thio radical, a C₁-C₆ thioalkyl radical, a (C₁-C₆)alkylthio radical, an amino radical, an amino radical which is substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ monohydroxyalkyl radical or a C₂-C₆ polyhydroxyalkyl radical; it being understood that the radicals R₁₁ are carried by a carbon atom;

the radicals R₁₂, which are identical or different, represent a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical, a C₁-C₆ carbamylalkyl radical, a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical, a benzyl radical; it being understood that the radicals R₁₂ are carried by a nitrogen atom;

R₁₃ represents a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ aminoalkyl radical, a C₁-C₆ aminoalkyl radical whose amine is mono- or di-substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-

C₆)alkylsulphonyl radical; a C₁-C₆ carboxyalkyl radical; a C₁-C₆ carbamylalkyl radical; a C₁-C₆ trifluoroalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ sulphonamidoalkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylsulphinyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylsulphonyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylsulphonamido(C₁-C₆)alkyl radical;

x is 0 or 1

when x = 0, the linking arm D is attached to the nitrogen atom,

when x = 1, the linking arm D is attached to one of the vertices E, G, J, L or M,

Y is a counter-ion;

R₃ represents a hydrogen atom or a hydroxyl radical.

2. (Canceled)
3. (Previously presented) The composition of claim 1, in which the cationic tertiary paraphenylenediamine is such that n is equal to 0.
4. (Currently amended) The composition of claim 1, in which the cationic tertiary paraphenylenediamine is such that n is equal to 1 and ~~R₁ is chosen from the group consisting of a halogen atom; a saturated or unsaturated, aliphatic or alicyclic, C₁-C₆ hydrocarbon chain; it being possible for one or more carbon atoms to be replaced with an oxygen, nitrogen, silicon or sulphur atom, or with an SO₂ group, the radical R₁ not containing a peroxide bond, or diazo, nitro or nitroso radicals.~~
5. (Canceled)
6. (Currently amended) The composition of claim ~~[[5]]~~ 1, in which the cationic tertiary paraphenylenediamine is such that R₁ is chosen from a methyl, hydroxymethyl, 2-hydroxyethyl, 1,2-dihydroxyethyl, methoxy, isopropoxy or 2-hydroxyethoxy radical.
7. (Canceled)

8. (Currently amended) The composition of claim [[7]] 1, in which the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula II in which x is equal to 0 and R₄, R₅ and R₆ separately are preferably chosen from a C₁-C₆ alkyl radical, a C₁-C₄ monohydroxyalkyl radical, a C₂-C₄ polyhydroxyalkyl radical, a (C₁-C₆)alkoxy(C₁-C₄)alkyl radical, a C₁-C₆ amidoalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, or R₄ with R₅ form together an azetidine ring, a pyrrolidine, piperidine, piperazine or morpholine ring, R₆ being chosen in this case from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical, an aminoalkyl radical which is mono- or di-substituted with a (C₁-C₆)alkyl radical, a (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkyl carboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical.

9-10. (Canceled)

11. (Currently amended) The composition claim [[7]] 1, in which the cationic tertiary para-phenylenediamine is such that R₂ is a trialkylammonium radical.

12-13. (Canceled)

14. (Currently amended) The composition of claim [[12]] 1, in which the cationic tertiary para-phenylenediamine is such that R₂ represents an onium radical Z corresponding to formula III, x is equal to 0, and D is a single bond or an alkylene chain which may be substituted.

15-16. (Canceled)

17. (Currently amended) The composition of claim [[15]] 1, in which the cationic tertiary para-phenylenediamine is such that R₂ represents an onium radical Z corresponding to formula IV, x is equal to 0, and R₁₁ is chosen from a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a C₁-C₆ alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di-substituted with a (C₁-C₆)alkyl, a (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ monohydroxyalkyl radical or a C₂-C₆ polyhydroxyalkyl radical and R₁₂ is chosen from a C₁-C₆ alkyl radical, a C₁-C₆

monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical, a C₁-C₆ carbamylalkyl radical.

18. (Currently amended) The composition of claim [[15]] 1, in which the cationic tertiary para-phenylenediamine is such that R₂ represents an onium radical Z corresponding to formula IV, x is equal to 1, and R₁₃ is chosen from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical, a C₁-C₆ aminoalkyl radical whose amine is mono- or di-substituted with a (C₁-C₆)alkyl radical, a (C₁-C₆)alkylcarbonyl radical, an amido radical, a (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; R₁₁ is chosen from a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a C₁-C₆ alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di-substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; and R₁₂ is chosen from a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical, a C₁-C₆ carbamylalkyl radical.

19. (Currently amended) The composition of claim [[15]] 1, in which the cationic tertiary para-phenylenediamine is such that R₂ represents an onium radical Z corresponding to formula IV, and R₁₁, R₁₂ and R₁₃ are alkyl radicals which may be substituted.

20-21. (Canceled)

22. (Currently amended) The composition of claim 1, in which the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride[[,]]

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

~~N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethyl-guanidinium-chloride~~

~~N-[1-(4-Aminophenyl)pyrrolidin-3-yl]-guanidinium-chloride~~

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

~~[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium-chloride~~

~~[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilylpropyl)ammonium chloride~~

~~[1-(4-Aminophenyl)pyrrolidin-3-yl]-(trimethylammonium-hexyl)dimethylammonium dichloride~~

~~[1-(4-Aminophenyl)pyrrolidin-3-yl]oxophosphorylcholine~~

~~{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl} trimethylammonium chloride~~

~~1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride~~

~~3-{3-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride~~

~~1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride~~

~~3-{3-[1-(5-trimethylsilyl-ethyl-4-amino-3-trimethylsilyl-ethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride~~

~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium chloride~~

~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetradecylammonium chloride~~

~~N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethyl-guanidinium chloride~~

~~N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-guanidinium chloride~~

~~3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride~~

~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride~~

~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilylpropyl)ammonium chloride~~

~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(trimethylammoniumhexyl)-dimethylammonium dichloride~~

~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]oxophosphorylcholine~~

~~{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl} trimethylammonium chloride~~

~~1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride~~

3-{3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]-propyl} 1-methyl-3H-imidazol-1-um chloride

~~1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride~~

~~[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride~~

~~3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride~~

~~3-{3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-um chloride~~

~~[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride~~

~~3-[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride~~

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

~~1'-(4-Amino-3-methylphenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride~~

3-{{1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl}methyl}-1-methyl-3H-imidazol-1-ium chloride

3-{{1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl}methyl}-1-methyl-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilylpropyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyl dimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyl dimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyl dimethylammonium iodide[[,]]

[1-(4-aminophenyl)pyrrolidin-3-yl]propyl dimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyl dimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide
 [1-(4-Aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide
~~[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyl dimethylammonium chloride~~
~~[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyl dimethylammonium iodide.~~

23. (Currently amended) The composition of claim 1, in which the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride[[:]]
 [1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide[[:]]
~~N' [1-(4-Aminophenyl)pyrrolidin-3-yl] N,N-dimethyl guanidinium chloride~~
~~N [1-(4-Aminophenyl)pyrrolidin-3-yl] guanidinium chloride~~
 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride[[:]]
~~[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethylammonium chloride~~
~~[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl (3-trimethylsilylpropyl)ammonium chloride[[:]]~~
 [1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium chloride
 [1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetradecylammonium chloride
~~N' [1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl] N,N-dimethyl guanidinium chloride~~
~~N [1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl] guanidinium chloride~~
 3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride
~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl] (2-hydroxyethyl)dimethylammonium chloride~~

~~[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilylpropyl)ammonium chloride~~
~~1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride~~
~~1'-(4-Amino-3-methylphenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride~~
 3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride
 3-{[1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride
 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilylpropyl)-3H-imidazol-1-ium chloride
 3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilylpropyl)-3H-imidazol-1-ium chloride
 [1-(4-aminophenyl)pyrrolidin-3-yl]ethyl dimethylammonium chloride
 [1-(4-aminophenyl)pyrrolidin-3-yl]ethyl dimethylammonium iodide
 [1-(4-Aminophenyl)pyrrolidin-3-yl]propyl dimethylammonium iodide[[,]]
 [1-(4-aminophenyl)pyrrolidin-3-yl]propyl dimethylammonium bromide
 [1-(4-aminophenyl)pyrrolidin-3-yl]propyl dimethylammonium methosulphate
 [1-(4-aminophenyl)pyrrolidin-3-yl]butyl dimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]pentyl dimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]hexyl dimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]heptyl dimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]octyl dimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]decyl dimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyl dimethylammonium iodide
~~[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyl dimethylammonium chloride~~
~~[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyl dimethylammonium iodide.~~

24. (Currently amended) The composition of claim 1, in which the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

~~N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride~~

~~N-[1-(4-Aminophenyl)pyrrolidin-3-yl]-guanidinium chloride~~

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

~~[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride~~

~~[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilylpropyl)ammonium chloride~~

~~[1-(4-Aminophenyl)pyrrolidin-3-yl]-(trimethylammoniumhexyl)dimethylammonium dichloride~~

~~1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride~~

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilylpropyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium iodide[[,]]

[1-(4-aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyltrimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyltrimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyltrimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyltrimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide
 [1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide
~~[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyl dimethylammonium chloride~~
~~[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyl dimethylammonium iodide.~~

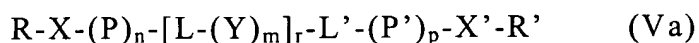
25. (Currently amended) The composition of claim 1, in which the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride
 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride
~~[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride~~
~~1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride.~~

26. (Currently amended) The composition of claim 1, in which the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride, and ~~[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride.~~

27. (Original) The composition claim 1, in which the cationic polymer containing a fatty chain is a cationic associative polyurethane of general formula (Va):



in which:

R and R', which are identical or different, represent a hydrophobic group or a hydrogen atom;

X and X', which are identical or different, represent a group containing an amine functional group carrying or otherwise a hydrophobic group, or alternatively the group L'';

L, L' and L'', which are identical or different, represent a group derived from a diisocyanate;

P and P', which are identical or different, represent a group containing an amine functional group carrying or otherwise a hydrophobic group;

Y represents a hydrophilic group;

r is an integer between 1 and 100, preferably between 1 and 50 and in particular between 1 and 25;

n, m and p are each, independently of the others, between 0 and 1000;

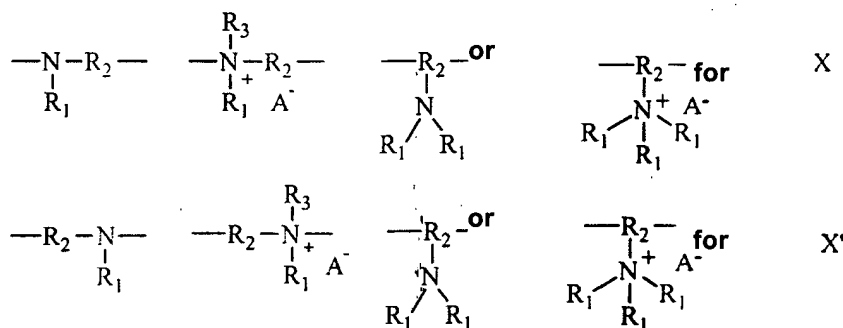
the molecule containing at least one protonated or quaternized amine functional group and at least one hydrophobic group.

28. (Original) The composition of claim 27, characterized in that R and R' both represent independently a hydrophobic group, X, X' each represent a group L'', n and p are between 1 and 1 000.

29. (Original) The composition of claim 27, characterized in that R and R' both represent independently a hydrophobic group, X and X' both represent independently a group containing a quaternary amine, n and p are equal to zero.

30. (Original) The composition of claim 27, characterized in that R and R' represent a radical or a linear or branched, saturated or unsaturated, polymer containing a hydrocarbon chain in which one or more of the carbon atoms may be replaced by a heteroatom chosen from S, N, O and P, or containing a silicone or a perfluorinated chain.

31. (Original) The composition of claim 27, characterized in that X and X' represent one of the formulae:



in which:

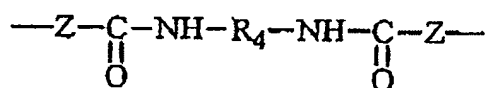
R₂ represents a linear or branched alkylene radical having from 1 to 20 carbon atoms, containing or otherwise a saturated or unsaturated ring, or an arylene radical, it

being possible for one or more of the carbon atoms to be replaced by a heteroatom chosen from N, S, O, P;

R₁ and R₃, which are identical or different, denote a linear or branched C₁-C₃₀ alkyl or alkenyl radical, an aryl radical, it being possible for at least one of the carbon atoms to be replaced by a heteroatom chosen from N, S, O, P;

A⁻ is a physiologically acceptable counter-ion.

32. (Original) The composition of claim 27, characterized in that the groups L, L' and L'', which are identical or different, represent the formula:

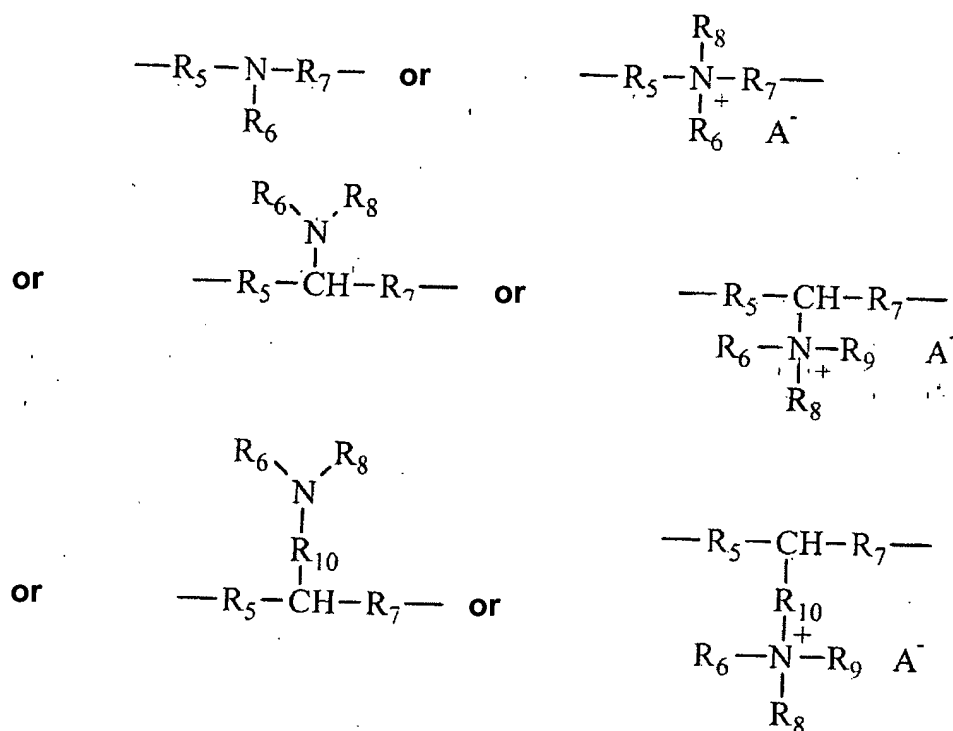


in which:

Z represents -O-, -S- or -NH-; and

R₄ represents a linear or branched alkylene radical having from 1 to 20 carbon atoms, containing or otherwise a saturated or unsaturated ring, an arylene radical, it being possible for one or more of the carbon atoms to be replaced by a heteroatom chosen from N, S, O and P.

33. (Original) The composition of claim 27, characterized in that the groups P and P', which are identical or different, represent at least one of the following formulae:



in which:

R₅ and R₇ have the same meanings as R₂;

R₆, R₈ and R₉ have the same meanings as R₁ and R₃;

R₁₀ represents a linear or branched alkylene group, which is optionally unsaturated and which may contain one or more heteroatoms chosen from N, O, S and P,

and A⁻ is a physiologically acceptable counter-ion.

34. (Original) The composition of claim 27, characterized in that Y represents a group derived from ethylene glycol, diethylene glycol or propylene glycol, or a group derived from a polymer chosen from polyethers, sulfonated polyesters and sulfonated polyamides.
35. (Previously presented) The composition of claim 27, characterized in that the cationic associative polyurethanes have a number-average molecular mass between 400 and 500 000.
36. (Original) The composition of claim 1, in which the polymer containing a cationic fatty chain is a cationic cellulose containing a fatty chain.
37. (Original) The composition of claim 36, in which the cationic cellulose containing a fatty chain is chosen from quaternized celluloses modified by groups containing at least one fatty

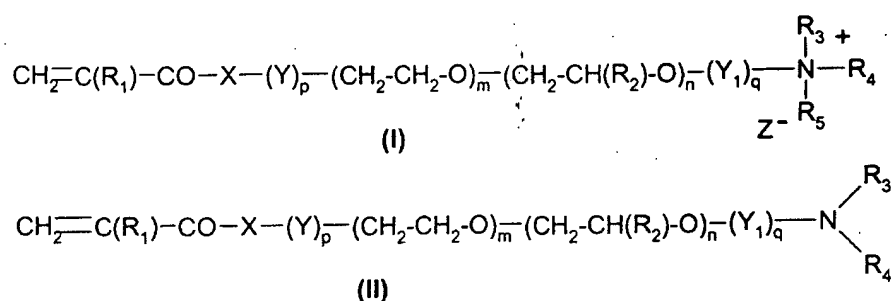
chain, chosen from alkyl, arylalkyl and alkylaryl groups containing from 8 to 30 carbon atoms, or mixtures thereof.

38. (Original) The composition of claim 1, in which the cationic polymer containing a fatty chain is a cationic derivative of polyvinylpyrrolidone containing a fatty chain.

39. (Original) The composition of claim 38, in which the cationic derivative of polyvinylpyrrolidone containing a fatty chain comprises:

at least one cationic monomer of the vinylpyrrolidone type containing a fatty chain

at least one monomer having the following structure (I) or (II):



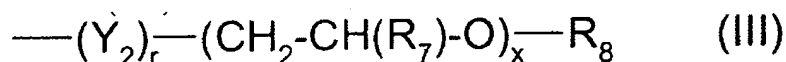
in which:

X denotes an oxygen atom or a radical NR₆,

R₁ and R₆ denote, independently of each other, a hydrogen atom or a linear or branched C₁-C₅ alkyl radical,

R₂ denotes a linear or branched C₁-C₄ alkyl radical,

R₃, R₄ and R₅ denote, independently of each other, a hydrogen atom, a linear or branched C₁-C₃₀ alkyl radical or a radical of formula (III):



Y, Y₁ and Y₂ denote, independently of each other, a linear or branched C₂-C₁₆ alkylene radical,

R₇ denotes a hydrogen atom, or a linear or branched C₁-C₄ alkyl radical or a linear or branched C₁-C₄ hydroxyalkyl radical,

R₈ denotes a hydrogen atom or a linear or branched C₁-C₃₀ alkyl radical,

p, q and r denote, independently of each other, either the value zero, or the value 1,

m and n denote, independently of each other, an integer ranging from 0 to 100,

x denotes an integer ranging from 1 to 100,

Z denotes an anion of an organic or inorganic acid,

provided that:

at least one of the substituents R₃, R₄, R₅ or R₈ denotes a linear or branched C₉-C₃₀ alkyl radical,

if m or n is different from zero, then q is equal to 1,

if m or n are equal to zero, then p or q is equal to 0.

40. (Original) The composition of claim 39, characterized in that, in formulae (I) or (II), the radicals R₃, R₄ and R₅ denote, independently of each other, a hydrogen atom or a linear or branched C₁-C₃₀ alkyl radical.

41. (Original) The composition of claim 39, characterized in that the monomer b) is a monomer of formula (I).

42. (Original) The composition of claim 41, characterized in that, in formula (I), m and n are equal to zero.

43. (Original) The composition of claim 39, characterized in that the cationic polyvinylpyrrolidone polymer(s) contain one or more additional cationic or nonionic monomers.

44. (Original) The composition of claim 43, characterized in that the cationic polyvinylpyrrolidone is a terpolymer comprising:

- a) a monomer of the pyrrolidone type,
- b) a monomer of formula (I) in which p = 1, q = 0, R₃ and R₄ denote, independently of each other, a hydrogen atom or a C₁-C₅ alkyl radical and R₅ denotes a C₉-C₂₄ alkyl radical, and
- c) a monomer of formula (II) in which R₃ and R₄ denote, independently of each other, a hydrogen atom or a C₁-C₅ alkyl radical.

45. (Original) The composition of claim 44, characterized in that the terpolymer comprises, by weight, 40 to 95% of monomer (a), 0.25 to 50% of monomer (b) and 0.1 to 55% of monomer (c).

46. (Original) The composition of claim 1, characterized in that the cationic polyvinylpyrrolidones are chosen from terpolymers vinylpyrrolidone/dimethylaminopropylmethacrylamide/dodecyldimethylmethacrylamidopropylammonium tosylate, the terpolymers vinylpyrrolidone/dimethylaminopropylmethacrylamide/cocoyldimethylmethacrylamidopropylammonium tosylate, the terpolymers vinylpyrrolidone/dimethylaminopropylmethacrylamide/lauryldimethylmethacrylamidopropylammonium tosylate or chloride.
47. (Previously presented) The composition of claim 39, characterized in that the weight-ratio molecular mass of the cationic polyvinylpyrrolidones is between 500 and 20 000 000.
- 48-54. (Canceled)
55. (Currently amended) The composition of claim 1, in which the cationic tertiary para-phenylenediamine(s) having a pyrrolidine ring represent from about 0.001 to about 10% by weight relative to the total weight of the composition.
56. (Currently amended) The composition of claim 1, in which the polymer containing a fatty chain represents from ~~0.05% to 20%~~ about 0.5% to about 5% by weight relative to the total weight of the composition.
57. (Original) The composition of claim 1, such that it additionally contains at least one additional cationic polymer.
58. (Original) The composition of claim 1, such that it additionally contains at least one additional thickening polymer.
59. (Original) The composition of claim 1, such that it additionally contains at least one surfactant chosen from the group consisting of anionic surfactants, amphoteric or zwitterionic surfactants, nonionic surfactants and cationic surfactants.
60. (Original) The composition of claim 1, such that it comprises at least one additional oxidation base other than cationic tertiary para-phenylenediamines having a pyrrolidine ring chosen from para-phenylenediamines, bis-phenylalkylenediamines, para-aminophenols, ortho-aminophenols, heterocyclic bases and their addition salts.

61. (Currently amended) The composition of claim 60, in which the additional oxidation base(s) are present in a quantity of between about 0.001 to about 20% by weight relative to the total weight of the composition.
62. (Original) The composition of claim 1, such that it additionally comprises at least one coupler chosen from meta-phenylenediamines, meta-aminophenols, meta-diphenols, naphthalene couplers, heterocyclic couplers and their addition salts.
63. (Original) The composition of claim 62, such that the coupler is chosen from 1,3-dihydroxybenzene, 1,3-dihydroxy-2-methylbenzene, 4-chloro-1,3-dihydroxybenzene, 2,4-diamino-1-(β -hydroxyethyloxy)benzene, 2-amino-4-(β -hydroxyethylamino)-1-methoxybenzene, 1,3-diaminobenzene, 1,3-bis(2,4-diaminophenoxy)propane, 3-ureidoaniline, 3-ureido-1-dimethylaminobenzene, sesamol, 1- β -hydroxyethylamino-3,4-methylenedioxybenzene, α -naphthol, 2-methyl-1-naphthol, 6-hydroxyindole, 4-hydroxyindole, 4-hydroxy-N-methylindole, 2-amino-3-hydroxypyridine, 6-hydroxybenzomorpholine, 3,5-diamino-2,6-dimethoxypyridine, 1-N-(β -hydroxyethyl)amino-3,4-methylenedioxybenzene, 2,6-bis(β -hydroxyethylamino)toluene and their addition salts.
64. (Currently amended) The composition of claim 62, such that the coupler(s) are present in a quantity of between about 0.001 and about 20% by weight relative to the total weight of the composition.
65. (Original) The composition of claim 1, such that it additionally comprises at least one direct dye.
66. (Original) The composition of claim 1, such that it additionally comprises at least one hydroxylated solvent such as ethanol, propylene glycol, glycerol, polyol monoethers.
67. (Original) The composition of claim 1, such that it comprises an oxidizing agent chosen from hydrogen peroxide, urea peroxide, alkali metal bromates, persalts, peracids and oxidase enzymes, and preferably hydrogen peroxide.
68. (Original) A method for the oxidation dyeing of keratinous fibres, characterized in that a dyeing composition as defined in claim 1 is applied to the fibres in the presence of an oxidizing agent.

69. (Original) A multicompartment device in which the first compartment contains a dyeing composition for dyeing keratinous fibres, as defined in claim 1, and a second compartment contains an oxidizing agent.

70. (Canceled)